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PPLICATION NO.	FII	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/725,823	1	2/01/2003	Ning-Sun Yang	08919-080001	3608	
26161	7590	09/13/2005	·	EXAMINER		
FISH & RICHARDSON PC				LEITH, PATRICIA A		
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT PAPER NUMBER		
				1655		

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
*		10/725,823	YANG ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Patricia Leith	1655					
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet	with the correspondence ac	ddress				
THE : - Exterent efter - If the - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pere to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may I. I reply within the statutory minimum of the right o	a reply be timely filed hirty (30) days will be considered time ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).					
Status								
1)[🖂	Responsive to communication(s) filed on 2	<u> 1 June 2005</u> .						
'=	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allo	•	•	e merits is				
	closed in accordance with the practice und	er <i>Ex par</i> te Quayle, 1935 C	.D. 11, 453 O.G. 213.					
Disposit	ion of Claims							
4)⊠	Claim(s) 1-19 is/are pending in the applica	tion.						
	4a) Of the above claim(s) <u>20-43</u> is/are withdrawn from consideration.							
· · · · · · · · · · · · · · · · · · ·	5) Claim(s) is/are allowed.							
· —	Claim(s) <u>1-19</u> is/are rejected.							
7)∐	Claim(s) is/are objected to.	nd/or olootion roquirom ant						
ا_(٥	Claim(s) are subject to restriction ar	na/or election requirement.						
Applicat	ion Papers	,						
9)[The specification is objected to by the Exar	niner.		•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)	The oath or declaration is objected to by the	e Examiner. Note the attach	ned Office Action or form P	10-152.				
Priority (ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	 Certified copies of the priority documents have been received. 							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the	•	en received in this Nationa	l Stage				
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s) e of References Cited (PTO-892)	A) [] Interview	w Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948) Paper N	lo(s)/Mail Date					
	mation Disclosure Statement(s) (PTO-1449 or PTO/SE er No(s)/Mail Date <u>3/22/04</u> .	3/08) 5)	of Informal Patent Application (PT	O-152)				
	rademark Office	- Julian	 -					



DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-19 as well as the species of *D.batatas* n the reply filed on 6/21/05 is acknowledged. Claims 20-43 are therefore hereby withdrawn from consideration on the merits as they are directed toward a non-elected invention.

Claims 1-19 were examined on their merits.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The MPEP states that the purpose of the written description requirement is to ensure that the invention had possession, as of the filing date of the application, of the specific subject matter later claimed by him or her. The courts have stated:

"To fulfill the written description requirement, a patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that the inventor invented the claimed invention.' Lockwood v.

American Airlines, Inc., 107 F. 3d 1565, 1572, 41 USPQ2d 1961, 1966 (Fed. Cir. 1997); In re Gostelli, 872 F. 2d 1008, 1012, 10 USPQ2d 1614, 1618 (Fed. Cir. 1989) ("[T]he description must clearly allow persons of ordinary skill in the art to recognize that [the inventor] invented what is claimed."). Thus, an applicant complies with the written description requirement "by describing the invention, with all its claimed limitations, no that which makes it obvious," and by using "such descriptive means as words, structures, figures, diagrams, formulas, etc., that set forth the claimed invention." Lockwood, 107 F. 3d at 1572, 41 USPQ2d at 1966." Regents of the University of California v. Eli Lilly & Co., 43 USPQ2d 1398.

The MPEP lists factors that can be used to determine if sufficient evidence of possession has been furnished in the disclosure of the Application. These include "level of skill and knowledge in the art, partial structure, physical and/or chemical properties,

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functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the method of making the claimed invention.

Disclosure of any combination of such identifying characteristics that distinguish the claimed invention from other materials would lead one of skill in the art to the conclusion that the applicant was in possession of the claimed species is sufficient MPEP § 2163.

The MPEP further states that if a biomolecule is described only by a functional characteristic, without any disclosed correlation between function and structure of the sequence, it is "not sufficient characteristic for written description purposes, even when accompanied by a method of obtaining the claimed sequence." MPEP § 2163. If the genus has a substantial variance, the disclosure must describe a sufficient variety of species to reflect the variation within that genus MPEP § 2163. Although the MPEP does not define what constitutes a sufficient number of representative species, the courts have indicated what do not constitute a representative number of species to adequately describe a broad generic. *In Gostelli*, the courts determined that the disclosure of two chemical compounds within a subgenus did not describe that subgenus. *In re Gostelli*, 872, F.2d at 1012, 10 USPQ2d at 1618.

The MPEP states that written description for a genus can be achieved by a representative number of species within a broad generic. It is unquestionable that claims 1 – 19 are broad generic claims, with respect to *all possible* extracts which are claimed in terms of their solubilities. The possible variations of extracts (i.e., their

which provide for the claimed characteristics.

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inherent phytochemical constituents) are limitless to any extract which meets the limitations of being soluble in water and insoluble in an aqueous solution containing varying amounts of ethanol between certain temperatures. The specification lacks sufficient variety of extracts of *D. batatas* to reflect this variance in the genus of 'extract' since the specification does not provide any other examples of extracts of *D. batatas*

The description requirement of the patent statue requires a description of an invention, not an indication of a result that one might achieve if one made that invention. See In re Wilder, 736, F. 2d 1516, 1521, 222 USPQ 369, 372-73 (Fed. Cir. 1984) (affirming rejection because the specification does "little more than outline [goals] appellants hope the claimed invention achieves and the problems the invention will hopefully ameliorate.") Accordingly, it is deemed that the specification fails to provide adequate written description for the genus of the claims and does not reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed had possession of the entire scope of the claimed invention.

"If the current invention is a telescope and you look through the telescope to see 'things' at the other end, you may be said to reach-through to those 'things' - for example, to a star that you can see. Information is being provided through the telescope to define the star, at the other end, but the inventor of the telescope does not possess the star seen through the telescope". Lim et al. (2005) re: *Synaptic*

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Pharmaceutical Corps v Astra Aktiebolag (1998). It is further deemed, and made clear in the Instant specification, that the identification of such extracts as broadly claimed would not be certain; on the contrary, one would need to **arbitrarily** test a an extract in order to verify its effectiveness as one or more of the inhibitors as claimed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hikino et al. (JP 61106516 A, English Abstract).

Hikino et al. (JP 61106516 A, English Abstract) disclosed the aqueous extract of the rhizome (tuber) *Dioscorea batatas* (common name; yam) (see English abstract). It is deemed that the water extract of *D.batatas* would be insoluble in an aqueous solution containing 65-90% ethanol at the claimed temperatures, especially absent evidence to the contrary.

Claims 8-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Ruiz, L. (2/17/2002).

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Ruiz, L. (2/17/2002) disclosed a recipe for 'San Cocho'; a Dominican soup (see pp. 1-2). Specifically, the soup contained yams, simmered in a water mixture (see steps 8 and 9) as well as chicken, beff, mutton and pork (see step 10). Thus, it is deemed that the soup would contain a water extract of yam (insoluble in alcohol as explained supra absent evidence to the contrary) and interleukin-2 (beef, pork and chicken all inherently contain interleukin-2).

Thus, Ruiz, L. anticipates the claimed invention.

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia Leith whose telephone number is (571) 272-0968. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia Leith Primary Examiner Art Unit 1655

9/1/05